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FILEID**BASPOWRJ

BAS\$POWRJ
Table of contents

(2) 52 DECLARATIONS
(3) 87 BAS\$POWRJ - BASIC double ** long

10

11 * 12 * 13 * 14 * 15 * 16 * 17 * 18

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16-SEP-1984 00:00:52 6-SEP-1984 10:34:41 VAX/VMS Macro VO4-00 [BASRTL.SRC]BASPOWRJ.MAR;1

(1)

.TITLE BASSPOWRJ ; BASIC real ** longword routine ; File: BASPOWRJ.MAR Edit: RNH1005

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: FACILITY: Basic Support Library

ABSTRACT:

This module contains entry points to support exponentiation (** or ^) in BASIC-PLUS-2 for REAL ** LONGWORD.

ENVIRONMENT: User Mode, AST Reentrant

AUTHOR: R. WILL . CREATION DATE: 22-NOV-78

MODIFIED BY:

R. Will, : VERSIUM U.

1-01 - Original
: 1-02 - Redo comments, JMP instead of BRW. RW 5-Dec-78
: 1-003 - Add ''' to the PSECT directive. JBS 22-DEC-78
3: 1-004 - Redo The case analysis for base leq 0 for compatability with the PDP-11. JBS 24-APR-1979

- Change shared external references to G° RNH 25-Sep-81

4344547890

.PSECT _BAS\$CODE PIC, USR, CON, REL, LCL, SHR, - EXE, RD, NOWRT, LONG

.MASK OTS\$POWRJ

base(AP)

G*OTS\$POWRJ+2

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0000

0002 0002 0002

BASSPOWRJ::

TSTF

BLEQ

JMP

0000

00000002 GF

(3)

Entry point
Since this routine uses no
registers and usually transfers
control to OTS\$POWRJ, we copy
its register save mask and then
JMP past its save mask and only

Test base relationship to zero
If base leq 0, do case analysis
Transfer control to the OTS\$

save the registers once

MOVZBL

CALLS

.END

#1. G*BAS\$\$STOP

WBAS\$K_DIVBY_ZER, -(SP) ; Divide by zero

; Report error, never return.

0033

00000000 GF

00'8F

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178 :-179 6\$:

180

(3)

; BASIC rea	l ** lo	ngword	routi	L 15	16	4_CED_10	84 00.0	10.52	UAW.						
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01															
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	!!!	Psect	ynops	is!											
Allocation 000000000 0000003E	0.)	PSEC1	0.) 1.)	Attrib NOPIC PIC	USR USR	CON	ABS	LCL	NOSHR SHR	NOEXE	NORD RD	NOWRT NOWRT	NOVE C NOVE C	BYTE	
	! Per	forman	e ind	icators	-:										
29 00: 110 00: 72 00: 0 00: 48 00: 2 00: 2 00: 0 00:	00:00.00 00:00.4 00:00.4 00:00.00 00:00.00 00:00.00	6 00 8 00 0 00 4 00 1 00 0 00	0:00:0 0:00:0 0:00:0 0:00:0 0:00:0 0:00:0	0.44 4.06 0.85 0.00 0.85 0.01 0.02											
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The working set limit was 900 pages.

1934 bytes (4 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 6 non-local and 5 local symbols.

182 source lines were read in Pass 1, producing 8 object records in Pass 2.

O pages of virtual memory were used to define 0 macros.

! Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[SYSLIB]STARLET.MLB:2

0

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:BASPOWRJ/OBJ=OBJ\$:BASPOWRJ MSRC\$:BASPOWRJ/UPDATE=(ENH\$:BASPOWRJ)

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